



ICOBAR

The 3rd International Conference
on Biospheric Harmony Advanced Research

Conference Program

IOP Conference Series
Earth and Environmental Science

NUNI
NATIONWIDE UNIVERSITY
NETWORK IN INDONESIA

**Archipelagic
& Island States
Forum**

CORIS

June 2021

BINUS
RESEARCH

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WELCOME MESSAGE Chair of the ICOBAR 2021

June 24-25, 2021

Bina Nusantara University, Jakarta, Indonesia

Rector of Bina Nusantara University, Prof. Harjanto Prabowo

Vice Rector, Prof. Tirta Nugraha Mursitama

Distinguished keynote speakers and presenters of the ICOBAR

On behalf of Bina Nusantara University and the organizing committee of the ICOBAR, I am delighted to have the opportunity to deliver this opening message today. As you are well aware, due to the extraordinary situation produced by COVID-19, we have decided to prepare our conference in a virtual format to best keep you physically safe while still profiting from the stimulating, intellectual developments that we have in store.

To begin, I would like to thank our distinguished keynote speakers as well as CORIS (Cooperation Computer Research Inter University) and the Archipelagic & Islands States (AIS) as our sponsor. More than that, I also express my heartfelt thanks to the committee, reviewers, and all people who have given their time and assistance to support this event.

As we all know, this is the third conference of Bina Nusantara University, under the flag of ICOBAR. This year, the committee had received around 400 submitted manuscripts. Through double-blind peer-review process, the committee carefully selected around 200 research papers that will be presented during the conference. We have today and tomorrow to share and exchange ideas and results of our research with other scholars and colleagues. So, let's make all sessions and discussions, a fruitful one!

After the conference, the committee will prepare full paper proceedings that will be sent further for final review by the IOP EES, the publisher. As the Chair of ICOBAR, I therefore expect that all presenters and authors to give their best efforts to refine their papers for a successful future publication with the IOP EES.

In ICOBAR 2021, the topic is focused on "Sustainable Innovation: Science and Technology to Foster and Empower the Society". As we realized the continuous growth in research activities around the world, we would like to propose a movement to rethink the purpose of the research. Sustainable innovation means doing a research that considers the sustainability factor such as environmental, social, financial aspects in their proposed technology, which is integrated from ideation to commercialization and its use in the society. Such innovation may be incremental, redesign, alternative, or even disruptive technology which help us to attain the same goal that we proposed in the first and second ICOBAR, "biospheric harmony".

I do hope that through the discussion and knowledge sharing sessions, the conference will bring positive contribution and impact to the academic society, policy makers and key stakeholders in our society.

Before coming to a close of this remark, I would also like to remind you and especially our presenters and hosts to strictly stick to our time schedule and not to let any session over-run.

To conclude, I wish all of us a great two-day conference with Binus University.

Once again, thank you for your great contribution and participation to the success of this event.
See you again next year!

Thank you very much.
Jakarta, 24 June 2021

Christian Harito, S.T., Ph.D.
Chair of the ICOBAR 2021

WELCOMING REMARKS General Chair of BJIC

General Chair BINUS Joint International Conference (BJIC) 2021 Jakarta, 24 June 2021

*H.E. Prof. Dr. Ir. Harjanto Prabowo, MM., Rector, BINUS University
Vice rectors, Directors, Deans, and Professors,*

Distinguished keynote speakers,

Prof. Dr. Nurul Taufiqu Rochman, M.Eng, Ph.D
Prof. Frank Marken
Prof. Michael Frese
H.E. Amenatave V. Yauvoli

Distinguished guests, ladies and gentlemen,

Let us praise to God the Almighty for His merciful and blessings as we gather here to attend The Third International Conference on Biospheric Harmony Advance Research (ICOBAR) 2021 as part of BINUS Joint International Conference (BJIC) 2021.

This year BJIC consists of 5 international conferences covering many disciplines ranging from sustainability and development, information management, engineering, technology, computer science, business, international relations, social science and humanities, namely:

1. International Conference on Biospheric Harmony Advance Research (ICOBAR), chaired by Christian Harito, S.T., Ph.D., is held now, in Jakarta, 24 - 25 June 2021
2. International Conference on Information Management and Technology (ICIMTech), chaired by Dr. Evaristus Didik Madyatmadja, ST., M.Kom., M.T, will be held in Jakarta, 19-20 August 2021.
3. International Conference on Business, International Relations and Diplomacy (ICOBIRD), chaired by Ella S. Prihatini, S.IP., Master of Development Practice (Adv.), Ph.D. will be held in Jakarta, 5-6 October 2021
4. International Conference on Eco Engineering Development (ICEED), chaired by Diana
5. Lo, S.TP, M.Sc, Ph.D, will be held in Jakarta, 17 – 18 November 2021
6. International Conference on Computer Science and Computational Intelligence (ICCSCI), chaired by Dr. Rojali, S.Si., M.Si., will be held in Jakarta, 18 – 19 November 2021

The 3rd ICOBAR, specifically, aim to promote the “Sustainable Innovation: Science and Technology to Foster and Empower the Society”. The theme of the conference underlines the uniqueness, importance and relevancy within the context of sustainability where environmental, social, financial aspects are considered in the proposed innovation. Finally, the challenges include how to manage the innovation for the society and better quality of life.

Distinguished guests, ladies and gentlemen,

This conference is also very special because of our keynote speakers are prominent scholars and professionals from Indonesia, Malaysia and United Kingdom who contribute to the discussion of new insights about biospheric harmony from their perspective as academician, professionals and expert from different fields. This conference shows the bold commitment of BINUS University as world class university that ranked 1001-1200 in QS WUR 2022 to continuously produce, share knowledge and foster and empower the society. Therefore, I do appreciate for their contribution to these conferences.

Last but not least, I would like to appreciate all chairpersons of the 5 conferences and committee members who have been working very hard to make this conference possible. I would also like to thank presenters, participants, our reviewers and publishers of the paper presented in the conferences as well as sponsor of this event. I hope you enjoy the conference!

Thank you very much.

Jakarta, 24 June 2021

Prof. Dr. Tirta N. Mursitama, PhD
General Chair BJIC 2021

WELCOMING REMARKS Rector of BINUS University

Rector BINUS University

*Distinguished keynote speakers,
Fellow professors and presenters,
Ladies and gentlemen,*

It is a great honor for me to welcome you to the International Conference on Biospheric Harmony Advance Research (ICOBAR) virtually host by BINUS University. This year marks the success of BINUS university achieving vision of 2021 as World Class University. We have been ranked 1001-1200 in QS World University Ranking 2022 and ranked 8th among public and private universities in Indonesia.

We realized that contribution of research and publication is indispensable in achieving this prestigious status. This conference is also part of continuing efforts in producing, deliberating and disseminating knowledge as well as creating research partnerships between faculty members and distinguished scholars from many universities in the world.

BINUS University's vision 2035 has underlined the clear message of fostering and empowering the society in building and serving the nation. Therefore, a two-day international conference that focuses on creating the future by acknowledging the fact that humans make unsustainable use of the earth, and this creates an inherent conflict between the whole ecosystems and human needs is essential to make university stay relevant to the needs of the societies.

Ladies and gentlemen,

I would like to express my highest appreciation to all invited keynote speakers and invited plenary session speakers and all presenters and participants who will make this conference meaningful. I strongly advice to make use of this conference wisely, not only discussing about research but also trying to build new joint research, publication, faculty exchanges and so on.

Finally, I also thank all the chairmen and committee members of the conference. I wish all of you great conference and make new acquaintances during the conferences.

Thank you very much.

Jakarta, 24 June 2021

Prof. Dr. Ir. Harjanto Prabowo, MM
Rector, BINUS University

KEYNOTE SPEAKERS

Keynote Speaker I

Prof. Dr. Nurul Taufiqu Rochman, M.Eng, Ph.D
(Indonesian Institute of Sciences, Indonesia)

Topic: "Challenge for Commercialization of Nanotechnology from Lab to the Industry"

Dr. Nurul Taufiqu Rochman is a scientist who is passionate about things moving at the smallest matter where possibilities are endless. Something that is strange and unfamiliar to most people, nanotechnology has always been Dr. Nurul's obsession in life. At the age of 40, he owns over 10 patents and copyright both here in Indonesia and in Japan, has won 17 awards, including The Best Innovation and The Best Idea in Business Award from SWA magazine in 2005 and The Best Young Scientists from the Indonesian Institute of Sciences (LIPI) in 2004, wrote 62 research papers for international publications, and he is currently the Chairman of the Indonesian Society for Nano since 2005. After years being in Japan for working and doing undergraduate, graduate, and PhD studies on material science and production engineering, Dr. Nurul felt the calling of returning to his home country and contribute to Indonesia's development while holding the belief that nanotechnology is the key to unlocking Indonesia's rich treasure and bright future. Passion for innovation-driven national development and strong faith in Indonesia become the driving force for his continued research, practices, and dissemination of knowledge in the field of nanotechnology.

Keynote Speaker II

Prof. Frank Marken
(University of Bath, United Kingdom)

Topic: "From Ionic Rectifiers to Water Desalination and to Water Harvesting"

Frank Marken has in September 2004 been appointed to a Senior Lecturer position and in 2011 promoted to a personal chair at the Department of Chemistry, University of Bath. Research in materials electrochemistry is the focus of work with an output of >550 publications (h-index 60, 18 completed PhD projects). Professor Frank Marken is a Fellow of the Royal Society of Chemistry, a Fellow of the International Society of Electrochemistry, and an active member of the Gesellschaft Deutscher Chemiker, the American Chemical Society, and the Electrochemical Society. He was awarded the RSC Theophilus Redwood Lectureship 2008 and the RSC Barker Medal 2018.

Keynote Speaker III

Prof. Michael Frese

(ASIA School of Business, Malaysia)

Topic: “Leading R&D Teams”

Prof. Frese holds appointments at Asia Business School (Malaysia) and Leuphana University of Lueneburg (Germany). Before that, he was Head of Dept. and Provost chair at NUS Business School (now on leave for 2020); Prior appointments were chair for work and organizational psychology at University of Giessen and visiting professors at London Business School; also University of Bremen, University of Pennsylvania, Munich and Amsterdam (UvA). Ranked third in life time publications among German management professors (BWL-Handelsblatt-Rankings 2012, 2014) and among the five most cited economists in Germany (Scopus Frankfurter Allgemeine Zeitung Ranking on Research 2015, 2016, 2017, 2018; the German term economist includes management), he is the most frequently cited work and organizational psychologist and organizational behavior scientist in Germany and Asia and one of the most frequently cited Europeans (h=index 105; ca. 54,000 Google Scholar citations with 11 articles cited more than 1000 times; i10=260; Web of Science: ca 12,700 cites, h=56, with two papers being in the top 1% of the field and 5 being cited more than 500 times; Scopus: ca 15,000; h=60). In Google scholar he belongs to the 10 most frequently cited active scholars in Management, Organizational Behavior, and Entrepreneurship worldwide.

Keynote Speaker IV

H.E. Amenatave V. Yauvoli

(Ambassador of the Republic of Fiji to the Republic of Indonesia)

Topic: “TBA”

Ambassador Yauvoli attained a distinguished career both as a Fijian diplomat and civil servant with commencement of work into the civil service in 1988. Ambassador Yauvoli has more than 30 years of working experience at the international, regional and national levels, having worked at the Pacific level in four Pacific regional organisations (SPREP, SPC, PIDF, MSG Secretariat) and at the international level with a stint at the WTO HQ based in Geneva, and in the United Nations Framework Convention on Climate Change based in Bonn, Germany. Ambassador Yauvoli was the recent Director General in the Melanesian Spearhead Group (MSG) Secretariat based in Port Vila, Vanuatu from 2016 to 2020. Prior to that, he worked as the Fijian Ambassador for Climate Change and Oceans from 2015 to 2016 and Interim Secretary General of the Pacific Islands Development Forum (PIDF).

ORGANIZING & SCIENTIFIC COMMITTEE

Advisory Board

- Prof. Dr. Ir. Harjanto Prabowo, M.M., Bina Nusantara University, Indonesia
- Prof. Dr. Tirta Nugraha Mursitama, Ph.D, Bina Nusantara University, Indonesia
- Dr. Eng. Nico Surantha, ST., MT., Bina Nusantara University, Indonesia

General Chairs

Christian Harito, S.T., Ph.D, Bina Nusantara University, Indonesia

Co-General Chairs

Elioenai Sitepu, S.T., M.Sc., Ph.D, Bina Nusantara University, Indonesia

Scientific Committee

Name	Affiliation
Prof. Dr. Ir. Harjanto Prabowo, M.M.	Bina Nusantara University, Indonesia
Prof. Tirta Nugraha Mursitama, S.Sos., MM., Ph.D	Bina Nusantara University, Indonesia
Prof. Dr. Heri Hermansyah, S.T., M.Eng.	Universitas Indonesia, Indonesia
Prof. Dr. Sasmoko, M.Pd.	Bina Nusantara University, Indonesia
Prof. Dr. Yahia H. Zoubir	KEDGE Business School, France
Dr. Eng. Infall Syafalni, ST, M.Sc.	Institut Teknologi Bandung, Indonesia
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Prof. Tai Wan-Ping, Ph.D.	Cheng Shiu University, Taiwan
Prof. Widodo Budiharto, S.Si., M.Kom.	Bina Nusantara University, Indonesia
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Dr. Juneman Abraham	Bina Nusantara University, Indonesia
Assistant Prof. Pei-Ling Yang	Oriental Institute of Technology, Taiwan
Moch. Faisal Karim, Ph.D.	Bina Nusantara University, Indonesia
Assoc. Prof. Nanthakumar Loganathan	Universiti Teknologi Malaysia, Malaysia
Heny Kurniawati, SST., Ak., M.Sc, Ph.D	Bina Nusantara University, Indonesia
Dr. Eng. Nana Sutisna, ST., MT.	Kyushu Institute of Technology
Dr. Hendry Hartono, S.E., M.M.	Bina Nusantara University, Indonesia
Maria R. Nindita Radyati, Ph.D.	Trisakti University, Indonesia
Dr. Eng. Rian Ferdian, ST., MT.	Universitas Andalas, Indonesia
Dr. Mita Purbasari Wahidiyat, M.F.A.	Bina Nusantara University, Indonesia
Religiana Hendarti, S.T., M.T., Ph.D.	Bina Nusantara University, Indonesia
Dr. Triyono A. Wahyudi	Kalbis Institute, Indonesia
Dr. Oki Setyandito, S.T., M.Eng	Bina Nusantara University, Indonesia
Dr. Rida Zuraida, S.T., M.T.	Bina Nusantara University, Indonesia
Muhammad Rum, Ph.D.	Universitas Gadjah Mada, Indonesia

Dr. Dian Purnama Sari, SE, MSA	Universitas Katolik Widya Mandala Surabaya, Indonesia
Muhammad Nanang Suprayogi, Ph.D.	Bina Nusantara University, Indonesia
Dr. Ari Margiono	Bina Nusantara University, Indonesia
Dr. Pantri Heriyati, S.E., M.Comm.	Bina Nusantara University, Indonesia
Dr. Marko Sebira Hermawan	Bina Nusantara University, Indonesia
Dr. Ahmad Syamil, CPIM-F, CIRM, CSCP	Bina Nusantara University, Indonesia
Primidya Kartika Miranda Soesilo, S.E., M.Sc., Ph.D	Bina Nusantara University, Indonesia
Dr. Nesti F. Sianipar, S.P., M.Si.	Bina Nusantara University, Indonesia
Utari Novella, PhD	Bina Nusantara University, Indonesia

EVENT RUNDOWN

Day 1 – Thursday, 24 June bit.ly/3uvsmEA	
08:00 – 08:30	Registration
08:30 – 08:45	Opening
08:45 – 08:55	Remarks from ICOBAR 2021 Chairman
08:55 – 09:15	Welcome Remarks <ul style="list-style-type: none"> - General Chair BJIC 2021 - Rector BINUS University
09:15 – 09:20	Opening Ceremony and Photo Session
09:20 – 10:20	Keynote Speaker 1: "Challenge for Commercialization of Nanotechnology from Lab to the Industry" Prof. Dr. Nurul Taufiqu Rochman, M.Eng, Ph.D (Indonesian Institute of Sciences, Indonesia)
11:20 – 11:30	Guidance to Parallel Session
11:30 – 12:00	Paper Presentation Session 1 & Industry Forum Session I
12:00 – 13:30	Lunch Break
13:30 – 15:00	Paper Presentation Session 2
15:10 – 16:23	Paper Presentation Session 3 & Industry Forum Session II
16:30 – 17:30	Keynote Speaker 1: "From Ionic Rectifiers to Water Desalination and to Water Harvesting" Prof. Frank Marken (University of Bath, United Kingdom)

Day 2 – Friday, 25 June bit.ly/3uvsmEA	
08:00 – 08:30	Registration
08:30 – 08:40	Opening
08:40 – 08:50	Best Paper Announcement

08.50 – 09.00	Closing Remarks from ICOBAR 2021 Vice-Chairman and Photo Session
09:00 – 10:00	Keynote Speaker 3: “Leading R&D Teams” Prof. Michael Frese (ASIA School of Business, Malaysia)
10:00 – 11:00	Keynote Speaker IV: "TBA" H.E. Amenatave V. Yauvoli (Ambassador of the Republic of Fiji to the Republic of Indonesia)
13:30 – 15:00	Paper Presentation Session 4 & Industry Forum Session III
15:10 – 16:23	Paper Presentation Session 5 & Industry Forum Session IV

PAPER PRESENTATION

DAY 1 - Thursday, 24 June 2021

Session 1 (Thursday, 24 June, 10.30 – 12.00)
Session 1A (Thursday, 24 June, 10.30 – 12.00) Room: http://bit.ly/ICOBAR3_a Session Chair: Riza Suwondo
(4284) Assessment of Rice Husk Inventory Level Prediction as Briquette Raw Material with Adaptive Neuro-FIS Erni Krisnaningsih
(4367) Seismic performance evaluation of steel structures designed using SNI 1726-2019 Riza Suwondo
(4418) Systematic Literature Review: Accelerate the Rice Production for Global Food Security Nicholas Dominic
(4478) The Effects of Information Search and Evaluation of Alternatives Through Social Media on the Purchase Decision: Japanese and Indonesian Consumers Case Ahmad Seiichi Ramadhan
(4493) Development of formula and product prototype of beverage made from tamarillo (Solanum betaceum) fruit and red yeast rice using Kano method Bayu Meindrawan
(4515) Water Fulfilment Analysis in Jatiluhur Regency Industrial Estates using NRECA and HBV Models Christian Cahyono
Session 1B (Thursday, 24 June, 10.30 – 12.00) Room: http://bit.ly/ICOBAR3_b Session Chair: Andreas Romulo
(4528) A Review: Application of Non-Thermal Plasma on Fruit Juices Andreas Romulo
(4578) A Framework for GIS-Based Sustainability Assessment for Palm Oil Industry: An Overview Hakara Warid
(4579) Change Order Factor Identification and Management in Long Segment Road Preservation Works in Jakarta Region Andi Bayu Putra
(4628) An Analysis and Design of Indicators for Sustainability Business Practice Adoption at Manufacturing Company: An Overview Ahmad Arief Santosa

(4641) Application of Smart Gas Grid As a Form of Adaptation of Gas Distribution Companies in The 4.0 Industry Era Wahyu Sardjono
Session 1C (Thursday, 24 June, 10.30 – 12.00) Room: http://bit.ly/ICOBAR3_c Session Chair: Yosef Dedy Pradipto
(4931) Cyber extension as the sustainable communication for farmers Ulani Yunus
(4285) Work from Home During Covid-19 Pandemic: A Preliminary Findings from Corporate in Greater Jakarta Sevenpri Candra
(4399) Local wisdom as a sustainable strategic innovation for the business community Ajeng Mira Herdina
(4449) e-WOM on Purchase Intention Local Brand Cosmetic in Indonesia Yulianne Safitri
(4450) The Role of Multi Channel Learning During Study Abroad in Improving Mandarin Language Ability Sofi Zhang
(5056) The Influence of Charismatic Leadership and Transformational Leadership on Job Performance in Health Workers during the Covid-19 pandemic with Commitment as a Mediator Yosef Dedy Pradipto
Session 1D (Thursday, 24 June, 10.30 – 12.00) Room: http://bit.ly/ICOBAR3_d Session Chair: Moch Faisal Karim
(4457) Brand Communication of Sustainable Fashion to Empower Indonesian Society Lidya Wati Evelina
(4458) The Influence of Transformational Leadership and Charismatic Leadership on Commitment to Health Workers during the Covid-19 Pandemic Muhamad Nanang Suprayogi
(4462) The impacts of charismatic leadership on job performance among the health workers during the covid-19 pandemic mediated by commitment and moderated by generosity Irfan Rifai
(4476) The Effect of Video Conference Learning and Video-Based Learning on Japanese Language Proficiency Linda Unsriana
(4486) The changing US climate change policy Moch Faisal Karim

(4505) Visual Communication Analysis of Poster Design with Web-based Augmented Reality as additional content. Andreas Kurniawan
Session 1E (Thursday, 24 June, 10.30 – 12.00) Room: http://bit.ly/ICOBAR3_e Session Chair: Tjeng Wawan Cenggoro
(4373) A Comparison of Noisy Photoplethysmography (PPG) Signals Using Heartpy With MAX30102 and Pulse Sensor Carl Ludwi Hendiarta, Hanson Robertus
(4419) Questionnaire Design for Analyzing Important Risk Factors of Cervical Cancer Kartika Purwandari
(4435) Digital Transformation Design for Smart Farming in Java Island with Distributed System Approach S. Pradono Suryodiningrat
(4448) A research review on the integration of BIM and Blockchain in the AEC industry Mustika Sari
(4463) A Greener AI-Based Crowd Counting via Efficient Deep Learning Tjeng Wawan Cenggoro
(4475) Count Time Series Modelling of Twitter Data and Topic Modelling: A Case of Indonesia Flood Events Alam Ahmad Hidayat
Session 1F (Thursday, 24 June, 10.30 – 12.00) Room: http://bit.ly/ICOBAR3_f Session Chair: Lim Sanny
(5009) Application for Sugarcane Plantation: Manpower and Transportation Planning Hangger Gahara Mawandha
(5032) GDPR: Implication to Indonesia's Business Siti Yuniarti
(5147) Information System Model for Maize Research Anzaludin Samsinga Perbangsa
(4317) Distributional Impact of Covid-19 on Currencies Return: Evidence from ASEAN. Kevin
(4368) Pandemic Covid-19: Impact on Stock Liquidity at Indonesia Stock Exchange Mulyono
(4382) Sustainable Market Entry Strategy Case on Healthcare Industry SME in Indonesia to Enter Vietnamese Market Lim Sanny

<p>Session 2 (Thursday, 24 June, 13.30 – 15.00)</p>
<p>Session 2A (Thursday, 24 June, 13.30 – 15.00) Room: http://bit.ly/ICOBAR3_a Session Chair: Juliastuti</p>
<p>(4649) Study of flow characteristic of side channel spillway at flood control dry dam Oki Setyandito</p>
<p>(4674) Implementing Green Economy in Developing Countries: the case of India's investment in renewable energy Dayu Nirma Amurwanti</p>
<p>(4682) EVALUATION AND OPTIMIZATION OF VEHICLE PARKING AREA AT CITRA TOWER KEMAYORAN JAKARTA Eduardi Prahara</p>
<p>(4708) Risk identification for design and build breakwater project using Risk Breakdown Structure (RBS) in Sanur Denpasar Port Project, Bali Juliastuti</p>
<p>(4724) Mechanical behaviours and modelling of nanostructure anode in Lithium-Ion Battery (LIB) - Enabling low-cost 3D nanostructures for novel anode design for future LIB Christian Harito</p>
<p>(4808) Analysis of alternative acceleration in high rise building project scheduling (case study: apartment aspena residence project) Faruq Kamal</p>
<p>Session 2B (Thursday, 24 June, 13.30 – 15.00) Room: http://bit.ly/ICOBAR3_b Session Chair: Oki Setyandito</p>
<p>(4730) Modeling Crystallographic Anisotropy Dependence of Interfacial Sliding Phenomenon in Nanoindentation of Cu/Nb ARB (Accumulated Rolling Bonding) Nanolayers Arief Budiman</p>
<p>(4770) Ecosystems Innovation Capabilities for Value Co-creation: Energy Transition towards Decarbonization Framework Yud Buana</p>
<p>(4774) Application of non-thermal plasma technology to extend fruit shelf life Ovitadani Ayuputri</p>
<p>(4780) Implementation of Knowledge Management in the Rice Supply Chain Strategy Febby Candra Pratama</p>
<p>(4783) Characteristics of Hydrodynamic Flow on Coral Reef Breakwater for Beach Nourishment Profile Alignment Oki Setyandito</p>

(5055) The significance of disability friendly space in interior design of youth creative hub in Jakarta Titi Indahyani
Session 2C (Thursday, 24 June, 13.30 – 15.00) Room: http://bit.ly/ICOBAR3_c Session Chair: Rachmi Kumala Widyasari
(4518) Fostering Heroineâ€™s Journey on Digital Platform to Sustain Re-representation of Women Role. Devina Sofiyanti
(4583) A Semantic Study of "Warfare" Video Game Terminologies Clara Herlina Karjo
(4584) Fashion Contemporary Design Project, Collaboration between Traditional Artisan with Young Designers. Amanda Prihutomo
(4593) Assessing Task Difficulty, Team-Member Ability, and Motivation on the Team Productivity by an Agent-based Model Luki Iswara
(4598) Storytelling for Raising Awareness of Environmental and Social Issues: Analogy Approach Angela Oscario
(4648) The Implementation of New Habit Adaptations at the Go Tik Swan Batik Workshop for the Sustainability of a Culture-Based Creative Economy Rachmi Kumala Widyasari
Session 2D (Thursday, 24 June, 13.30 – 15.00) Room: http://bit.ly/ICOBAR3_d Session Chair: Dria Setiautami
(4659) A Retrospective Overview of Green Entrepreneur Research using a Bibliometric Analysis Mega Firdaus
(4676) The Moderating Effects of Perceived Organizational Support on the Relationship between Career Advancement and Turnover Intention: The Case of Financial Services Industry in Indonesia Okta Prihatma Bayu Putra
(4692) Media agenda building to contribute forest fire handling and prevention in Indonesia and Malaysia Indra Prawira
(4747) The effects of charismatic leadership and transformational leadership on job performance among health workers during the covid-19 pandemic with the commitment as the mediator Yusuf Ratu Agung
(4749) Traditional Performances Inspiration in Popular Media: Indonesian Wayang Comics from Post-Independence to the New Millennium Dria Setiautami

(4751) Public transportation and environmental concern: Investigation intention to use bus rapid transit (BRT) Banjarkakula on female students Muhammad Abdan Shadiqi
Session 2E (Thursday, 24 June, 13.30 – 15.00) Room: http://bit.ly/ICOBAR3_e Session Chair: Gunawan Wang
(4561) Oil Palm Farmer's Income Simulator M Prasanto Bimantio
(4562) Solution of SEIRD Mathematical Model for the COVID-19 Transmission Using Microsoft Excel D P W Putra
(4563) The development of video analysis instrument to determine teacher's character Marcellinus Andy Rudhito
(4627) Kiko Good Garage Reservation and Customer Management Application Design Using Prototyping Method Frey Andila
(4630) Landslide Potential Dynamics Using Storie Method Toward Land Use Changes in 2000, 2010, and 2020 in Ciletuh Watershed, Sukabumi, Indonesia Andhika Nurul
(4693) Designing Customer Involvement Programme with Gamification Framework Gunawan Wang
Session 2F (Thursday, 24 June, 13.30 – 15.00) Room: http://bit.ly/ICOBAR3_f Session Chair: Triasesiarta Nur
(4441) A Maturity Model for Assessing the Indonesian Payment Systems Blueprint 2025 Readiness Anjar Priandoyo
(4447) Providing Public Facilities Through FAR Bonus Policy in Jakarta City: An Implementation Review Lia Kurniawati
(4465) Factors Influencing The College Students' Behavior Intention to use E-Wallet in Jakarta Triasesiarta Nur
(4534) Utilizing Technology Acceptance Model (TAM) to Comprehend Factors Affecting Gen Z's Desire to Use Mobile Payment Services Dian Kurnianingrum
(4695) The Concept Model of E-Trust in Sustainable Marketing D Y Nugraha
(4698) The Antecedents of Purchase Intention in Sustainable Marketing Doni Purnama Alamsyah

<p>Session 3 (Thursday, 24 June, 15.10 – 16.25)</p>
<p>Session 3A (Thursday, 24 June, 15.10 – 16.25) Room: http://bit.ly/ICOBAR3_a Session Chair: Adelia Dwidarma Nataadmadja</p>
<p>(4788) Interior Design for Increasing Airflow in Tiny Houses to Improve Well-Being Friska Amalia; Dini Cinda Kirana; Riono Aulia Abdullah; Janice Florencia Rahmat</p>
<p>(4793) Analysis of the Application of Design Principles on Point-of-Purchase (POP) Display as an Effort to Attract Consumersâ€™ Attention in Retail Space Dila Hendrassukma</p>
<p>(4806) Comparative analysis of planning cost and time to the number of workers between hollow core slab method with cast in situ method (case study: IKEA Jakarta Garden City project) Reza Kusuma Renaldi</p>
<p>(4810) Utilizing Rattan Waste of Furniture Industry in Trangsan Village, Sukoharjo Dyah Ayu Sekarningrum</p>
<p>(4819) Filtering Capability of Porous Asphalt with Natural Adsorbents Adelia Dwidarma Nataadmadja</p>
<p>Session 3B (Thursday, 24 June, 15.10 – 16.25) Room: http://bit.ly/ICOBAR3_b Session Chair: Dewi Kumoratih</p>
<p>(4841) Development of Dinoyo Ceramic Product Variants with Bamboo Material to Maintain Business Sustainability Tiara Ika Widia Primadani</p>
<p>(4847) Banjarmasin and the challenges of river-based tourism creative economy Dewi Kumoratih</p>
<p>(4851) Relationship Between Corporate Social Responsibility and Sustainability with Customersâ€™ Purchase Intention: Study on Indonesian Automotive Customers Leo Andri Yulius Caesar</p>
<p>(4859) Social Entrepreneur Study: Lesson from Bibliometric Application during Four Decades Yanuarita Kusuma Permata Sari</p>
<p>(4863) The Study of Materials in the Bubungan Tinggi Traditional House Regarding the Concept of Sustainability Ema Karina</p>
<p>Session 3C (Thursday, 24 June, 15.10 – 16.25) Room: http://bit.ly/ICOBAR3_c</p>

Session Chair: Greta Vidya Paramita
(4758) Antecedents of Negative electronic Word of Mouth on Repurchase Intention mediated by Social Networking Site on Energy Drink Products in Indonesia Endwien Hersetyawati
(4761) Website Design using Design Principles to Increase User Satisfaction Tobias Warbung
(4763) Using Global English coursebook to Indonesian students: A culturally relevant strategy to sustainable quality education? Widad Fairuz Nabilah
(4764) Teacher's Beliefs and Methodologies in Teaching, in CLIL, and in Technology Use: A Case Study of an Indonesian Biology Teacher Mahreen Hamid
(4782) Are There Any Differences In Achievement Emotion And Engagement In Students Between Academic Program? Greta Vidya Paramita
Session 3D (Thursday, 24 June, 15.10 – 16.25) Room: http://bit.ly/ICOBAR3_d Session Chair: Utari Novella
(4802) The Anatomical Structure of the New Pandawa in the Babad Wanamarta Activity Book as an Introduction to Wayang Culture Lintang Widyokusumo
(4804) Collaboration and co-creation in higher education: A case of two Malaysian and Indonesian university-based language centers Franklin G. Talaue
(4805) Sustainability of Online Learning During Pandemic Covid-19 Through Student Club Activities (Case Study at the Japanese Literature Department Conversation Club / Kaiwa Club) Utari Novella
(4813) Burnout and Turnover Intention: The Moderating Impacts of Perceived Organizational Support and Leader-Member Exchange (Evidence from Indonesian Retail Industry) Okta Prihatma Bayu Putra
(4839) Effect of Customer Relationship Management on Brand Equity Shopee Angelita Fransisca Rahayu
Session 3E (Thursday, 24 June, 15.10 – 16.25) Room: http://bit.ly/ICOBAR3_e Session Chair: Wahyu Sardjono
(4801) Efficient Neural Network Development: A Literature Review Ridho Herasmara

(4817) Evaluating the Traffic Condition in Jakarta during COVID-19 Pandemic: Social Media Text Mining Arif Budiarto
(4944) IDENTIFICATION OF VARIOUS INHIBITING FACTORS IMPLEMENTATION OF NATIONAL PAYMENT GATEWAY IN BANKING CORPORATION Wahyu Sardjono
(4963) Learning Management System for Oil Palm Smallholder-Owned Plantations E Firmansyah
(4964) Statistical Analysis and Data Visualization of Indonesia and Malaysia SARS CoV-2 Metadata Digdo Sudigyo
Session 3F (Thursday, 24 June, 15.10 – 16.25) Room: http://bit.ly/ICOBAR3_f Session Chair: Setiani Putri Hendratno
(4701) The Theory of Consumer Perceived Value to Achieve Sustainable Performance A Salsabila
(4703) Understanding the Consumer Behavior to Stimulate Sustainable Performance: The Model of Hedonic and Utilitarian Value M D Haikal
(4707) Development of Hedonism Value on E-Commerce D A Hermawan
(4722) Sustainable Performance: The Concept of Consumer Trust on Technology Adaption A A Setiawan
(4765) Analyzing factors influencing intention to use e-payment systems by Gen Z and Baby Boomers Setiani Putri Hendratno

DAY 2 - Friday, 25 June 2021

<p>Session 4 (Friday, 25 June, 13.30 – 15.00)</p>
<p>Session 4A (Friday, 25 June, 13.30 – 15.00) Room: http://bit.ly/ICOBAR3_a Session Chair: Ade Ariyani Sari Fajarwati</p>
<p>(4864) The space programming of Palembang traditional houses : A study of its acculturation approach Adinda Hamiatni Putri</p>
<p>(4866) Biophilic Approach as A Sustainable Strategy to Overcome Children’s Anxiety in Theraplay Room Nadia Delviana</p>
<p>(4876) Implementation of Sustainable Acoustic Material Engaged the Need for Sound Exploration in Children's Playroom Ade Ariyani Sari Fajarwati</p>
<p>(4877) Indoor greenery effect as anxiety reduction to improve human health and wellbeing Nada Safitri</p>
<p>(4880) Exploration of convection fabric waste as interior elements, accessories and furniture Aurelia Desyana Fanny</p>
<p>Session 4B (Friday, 25 June, 13.30 – 15.00) Room: http://bit.ly/ICOBAR3_b Session Chair: Yuli Eni</p>
<p>(4888) Analysis of Rice Production Efficiency in Regions of Western Indonesia Using Stochastic Frontier Analysis Yuli Eni</p>
<p>(4938) Interior of Optik Surya Historical Building in Malang with 3D Reconstruction Baskoro Azis</p>
<p>(4966) Smart Home Apps for Saving Energy Usage at Griyapram Guesthouse Malang Andi pramono</p>
<p>(4967) China High Technology Shifting and Trade War: Implication for United States and Israel Chelsea Tavia</p>
<p>(4996) Sustainable Energy in the Concept of Kinetic Architecture (Case Study: D*Haus Dynamic) R Asep Ahadiat Gandawijaya</p>
<p>Session 4C (Friday, 25 June, 13.30 – 15.00) Room: http://bit.ly/ICOBAR3_c</p>

Session Chair: Esther Widhi Andangsari
(4842) Online Purchase Intention of Green Products Damar Aji Irawan
(4845) Analysis of Japanese Common People Stereotypical View of Local Osaka People as Urusai Hito through Pierce's Semiotic Theory. Nalti Novianti
(4850) Gender inequality in Indonesian and Japanese households before and during covid -19 pandemic Putri Andam Dewi
(4855) Omnichannel as an Innovative Branding Strategy for Coworking Space Startup Industry in the Era of the COVID-19 Pandemic (Case Study in "Ngalup" Coworking Space in Malang, East Java) NISRIN HUSNA
(4861) Mental Health Enhancement Through Nostalgia. The Study on Loneliness and Internet Use Esther Widhi Andangsari
(4875) VISUAL ASSETS DESIGN EXPLORATION FOR EDUCATIONAL ANIMATION "FORMING LOW WASTE HABITS" Arik Kurnianto
Session 4D (Friday, 25 June, 13.30 – 15.00) Room: http://bit.ly/ICOBAR3_d Session Chair: Stijn Cornelis van Huis
(4867) Interface Visual Design on the NDA GCF Indonesia Website from Identity & Semiotics Perspective Laura Christina Luza
(4887) Global Corporate Responsibility by Japanese fashion companies with Indonesian suppliers: the cases of Asics, Uniqlo and Mizuno Stijn Cornelis van Huis
(4892) A language class for sustainable development through storytelling technique Michael
(4904) Sport Tourism; 360-degree Communication Strategy for Tourism Branding in Malang Gabriella Sagita Putri
(4908) The sustainability of Batik Tulis Lasem through Participatory Rural Appraisal (PRA) in the new motif design Vera Jenny Basiroen
Session 4E (Friday, 25 June, 13.30 – 15.00) Room: http://bit.ly/ICOBAR3_e Session Chair: Nico Surantha
(4965) Application of Expert System for Oil Palm Smallholder-Owned Plantations A Umami

(4977) Application Internet Of Things In Healthcare Covid-19: A Systematic Review Hardiyanti Citrawati,
(4994) Financial Transaction Database Design for Jamu Small-Medium Enterprises Reza Rahutomo
(5000) Implementation of Online Learning during the COVID-19 Pandemic in Primary Schools Andri Anugrahana
(5043) Internet of Things in Disaster Management Systems: A Systematic Review Nico Surantha
(4979) A Systematic Literature Review of Internet of Things Cybersecurity Jenny Ohliati
Session 4F (Friday, 25 June, 13.30 – 15.00) Room: http://bit.ly/ICOBAR3_f Session Chair: Hendry Hartono
(4769) Financial Performance Effect on The Sustainability of Property Companies in Indonesia Reinandus Aditya Gunawan
(4787) Factors influencing intention to purchase virtual items in mobile games with e-payment Setiani Putri Hendratno
(4795) The Value Relevance of ESG Disclosure in Indonesian Listed Bank: A Preliminary Study Yanthi Hutagaol-Martowidjojo
(4829) THE EFFECTS OF STAKEHOLDER PRESSURE AND FINANCIAL PERFORMANCE ON SUSTAINABILITY REPORTING IN LISTED MINING FIRMS ON THE IDX IN THE PERIOD 2017 - 2019 Fransisca Hanita
(4923) @hrhbalı Tripadvisor Marketing Mix Consumer Reviews Janfry Sihite
(4924) The Effect of Environmental Knowledge, Eco-Innovation, and Entrepreneurial Orientation on Competitive Advantage of SMEs in Jakarta (Case study of Textile Industries) Hendry Hartono

Session 5 (Friday, 25 June, 15.10 – 16.40)
Session 5A (Friday, 25 June, 15.10 – 16.40) Room: http://bit.ly/ICOBAR3_a Session Chair: Yureana Wijayanti
(4997) A Study of Sustainable Architecture of Chinese Temple in Jakarta : Jin De Yuan Polniwati Salim

(5001) Double Skin Facade Effect On Optimizing Daylighting In SOHO Apartment South Jakarta Very Lorenzo
(5026) The Impact of European Union-Indonesia Voluntary Partnership Agreement on Forest Law Enforcement Governance and Trade on Indonesia's Pulp and Paper Export to European Union Gloria Brenda Maatoke
(5029) The Multinational Corporations Alliance Strategy in the Indonesian Mining Industry: A Case of Smelter Development Requirement and Environmental Issues Ayu Ramadhini
(5044) Structural Analysis of Factors Influencing the Sustainability of Wave Energy in Indonesia's Coastal Area Yureana Wijayanti
Session 5B (Friday, 25 June, 15.10 – 16.40) Room: http://bit.ly/ICOBAR3_b Session Chair: Noerlina
(5046) Network Structure, Power Difference and Alliance Stability in Sustainable Supply Chain Management: A case in Agri-Food Industry Ina Agustini Murwani
(5258) Hierarchical Model of Choice of Entry Modes in Indonesia's High-Technology Industries Noerlina
(5267) Labor cost and organizational performance of a restaurant company in Indonesia during the pandemic M Ariel F Pane
(4642) Structure behaviour of tilted concrete column building to earthquake load based on SNI 1726-2019 (Case Study: The Smith Alam Sutera) Irpan Hidayat
Session 5C (Friday, 25 June, 15.10 – 16.40) Room: http://bit.ly/ICOBAR3_c Session Chair: Ahmad Sofian
(4917) Brand Extension of Sustainable Value at Higher Education in Indonesia: A Review Evi Sofia
(4925) COMPARISON OF CORPORATE CRIMINAL LIABILITY FOR ILLEGAL TRADE OF PROTECTED WILDLIFE IN INDONESIA AND SOUTH AFRICA Ahmad Sofian
(4935) Printed or Digital? An exploration of digital transformation in Indonesian library Ade Wirahman
(4956) Implementation of Narrative Flows in Indonesian Women's Movement Museum Display Area Sherly Jocelyn

(4970) The Impacts of Charismatic Leadership to Job performance on Health Workers during the Pandemic Mediated by Commitment Yosef Dedy Pradipto
(4913) Framing Analysis of News of the Pause on Johnson & Johnson Vaccine of Corona Virus (Covid-19) on CNN.com and Foxnews.com Ramanov Barezki
Session 5D (Friday, 25 June, 15.10 – 16.40) Room: http://bit.ly/ICOBAR3_d Session Chair: Desi Indrawati
(4971) The impacts of charismatic leadership and transformational leadership on job performance of health workers during the covid-19 pandemic with commitment as mediator and generosity as moderator Cicilia Emita
(5003) Exploration of Loneliness Linked with Automatic Thoughts during COVID-19 Outbreak Esther Widhi Andangsari
(5004) Environmental Literacy: Millennials' Understanding of Anthropocentrism and Ecocentrism Aguira Fortuna
(5015) Mono-no-Aware Game Design Aesthetic for Ecological Empathy: The Case of 'Ghost of Tsushima' the Video Game Andreas Jaka Pratama
(5016) Critical Multimodal Discourse Analysis of YouTube Influencers' Impact on Purchase Intention Desi Indrawati
(4990) (Anti-)Anthropocentric Perspectives in Tarzan Ekky Imanjaya
Session 5E (Friday, 25 June, 15.10 – 16.40) Room: http://bit.ly/ICOBAR3_e Session Chair: Muhamad Nanang Suprayogi
(5027) Reorienting curriculum for ESD: Integrating reading and literacy practices to address sustainability issues. Irfan Rifai
(5037) Environmental documentaries, corruption issues and social marketing approach Rosidah
(4869) The Influence of Charismatic Leadership on Job Performance of Health Workers during the Covid-19 Pandemic with Commitment as a Mediator Muhamad Nanang Suprayogi
(5144) Indonesia's Foreign Policy under President Joko Widodo's Administration in Resolving the Practices of Illegal, Unreported, Unregulated Fishing (IUU Fishing) Mikhael Joshua

(4453) News Consumption Behaviours of Jakarta Youth during the COVID-19 Pandemic Hizkia Kenya
Session 5F (Friday, 25 June, 15.10 – 16.40) Room: http://bit.ly/ICOBAR3_f Session Chair: Erna Ratnaningsih
(4989) Systematic literature review of fintech: implementation to create sustainability in enterprise of developing countries Muhammad Rais & Gerungan Napoleon
(5017) FOREST FIRES AND ENVIRONMENTAL GOVERNANCE IN INDONESIA Galuh Dian Prama Dewi
(5021) A Systematic Literature Review of ERP Innovation Systems in Developing Countries maharani Nurul Izza, Davita nabila Raisa
(5036) Responsibilities of Multinational Corporations in Their Business in Global Supply Chains in Indonesia: A Case Study Approach Erna Ratnaningsih
(5040) Corporate Social Responsibility of The Multinational Corporations: Diageo Ireland in Responding to the Public Health Alcohol Bill Elsa Louserina Novia Anggraita
(5045) INVESTIGATING THE HUMAN RESOURCE MANAGEMENT PRACTICES AND THEIR IMPACT ON COMPANIES'™ PERFORMANCE IN CULINARY BUSINESS IN JAKARTA, INDONESIA Nurianna Thoha

INDUSTRY FORUM PARALLEL SESSION

Thursday, 24 June 2021 bit.ly/3uvsmEA	
Topic I “Sustainable Waste Management” (10.30 – 12.00)	
10.15 – 10.30	Admission of Participants
10.30 – 10.35	Welcoming Participants by MC
10:35 – 10:40	Opening Remarks by Dr. Diah Wihardini, BINUS Global Director
10.40 – 10.45	Introduction of Moderator by MC
10:45 – 11:05	“Waste Bank Digitalization: An Integrated Communal Based Waste Management in Indonesia” Speaker: Emil R. Kaburuan, S.T., MA., Ph.D Lecturer at MMSI Program, Bina Nusantara University
11:05 – 11:25	“Black soldier fly (BSF, Hermetia Illucens) As A Solution for Waste-Food-Energy (WFE) Nexus in Indonesia” Speaker: Ir. Dave Mangindaan, S.T., M.T., Ph.D., MRSC, AMIChemE, IPM Lecturer at Faculty of Engineering, Bina Nusantara University
11:25 – 11:45	“#GOODforEarth: Re.juve's Comprehensive Effort Towards Zero Waste” Speaker: Richard Anthony, MBA. President Director of Re.Juve
11:45 – 11:55	Q & A Session
11.55 – 12.00	Closing
12:00 – 12:30	Discussion Forum with BINUS Industry Partners
Topic II “What's Next in Digital Healthcare Transformation?” (15.00 – 16.30)	
15:00 – 15:05	Opening
15:05 – 15:25	“Healthcare Digital Transformation in Japan: Present and Future” Speaker: Masahiro Ide, Ph.D Managing Director of Quie Corporation, Japan
15:25 – 15:45	“Smart Health Monitoring based on Internet-of-Things and Artificial Intelligence” Speaker: Dr.Eng. Nico Surantha, S.T., M.T.

	Lecturer at Binus Graduate Program-Master of Computer Science, Bina Nusantara University.
15:45 – 16:05	<p>“Roles of AI-Powered Digital Health Technologies during the COVID-19 Pandemic”</p> <p>Speaker: Nunung Nurul Qomariyah, S.Kom., M.T.I., Ph.D. Lecturer at Computer Science Program BINUS University International</p>
16:05 – 16:30	Q&A Session
16:30 – 17:00	Discussion Forum with BINUS Industry Partners
<p>Friday, 25 June 2021 bit.ly/3uvsmEA</p>	
<p>Topic III “Environmental Sustainability Campaign” (13.30 – 15.00)</p>	
13:30 – 13:35	Opening
13:35 – 13:55	<p>“Reach the Customers Mind with Digital Platform”</p> <p>Speaker: Dr. Dra. Ulani Yunus, M.M. Leader of Research Interest Group - Cross Cultural Communication, Bina Nusantara University</p>
13:55 – 14:15	<p>“The Challenges of Digital Green PR in Pandemic Era”</p> <p>Speaker: Dr. Siswantini, S.E., Ak., M.I.Kom Faculty Member of Marketing Communication, Communication Department, Bina Nusantara University</p>
14:15 – 14:35	<p>“Setting Your ‘Green Agenda’ in the Society”</p> <p>Speaker: Sari Soegondo, S.Sos, M.Si Professional Communication Practitioner</p>
14:35 – 15:00	Q&A Session
15:00 – 15:30	Discussion Forum with BINUS Industry Partners
<p>Topic IV “Agriculture 4.0” (15.00 – 16.30)</p>	
15:00 – 15:05	Opening
15:05 – 15:25	<p>“Artificial Intelligence for Precision Agriculture”</p> <p>Speaker: Bens Pardamean, B.Sc., M.Sc., Ph.D Director of Bioinformatics & Data Science Research Center (BDSRC) AI Research & Development Center (AIRDC)</p>
15:25 – 15:45	<p>“Smart, Low-Cost, Self-Sufficient Drying and Storage Systems for Indonesia Agriculture 4.0”</p> <p>Speaker: Dr. Arief S. Budiman, ST., MS</p>

	Research coordinator at Master of Industrial Engineering, Binus University
15:45 – 16:05	<p>“Impack is Impacting Life – Food Security, Resilience and Sustainability for Indonesia”</p> <p>Speaker: Sugiarto Romelli VP of Sustainability and New Product Development, PT. Impack Pratama Industri Tbk</p>
16:05 – 16:30	Q&A Session
16:30 – 17:00	Discussion Forum with BINUS Industry Partners




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